

DEC 15 1987

OPERATING PERMIT FOR FACILITIES
RECEIVING SOLID WASTE

TYPE OF FACILITY

Class III Landfill

FACILITY/PERMIT NUMBER

28-AA-001

PHYSICAL STREET ADDRESS OF FACILITY

American Canyon Sanitary Landfill
Western Terminus of Eucalyptus Drive
American Canyon, Napa County, Calif.

NAME AND MAILING ADDRESS OF OPERATOR

American Canyon Sanitary Landfill
710 Marin Street
Vallejo, California 94590

PERMITTING ENFORCEMENT AGENCY

Napa County Environmental Health

CITY/COUNTY

Napa County

PERMIT

This permit is granted solely to the operator named above, and is not transferrable.

Upon a change of operator, this permit is subject to revocation.

Upon a significant change in design or operation from that described by the Plan of Operation or the Report of Station or Disposal Site Information, this permit is subject to revocation, suspension, or modification.

This permit does not authorize the operation of any facility contrary to the State Minimum Standards for Solid Waste Handling and Disposal.

This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other government agencies.

The attached permit findings, conditions, prohibitions, and requirements are by this reference incorporated herein and made a part of this permit.

APPROVED:

APPROVING OFFICER

Trent G. Cave, Director
Napa County Environmental Health

NAME/TITLE

AGENCY ADDRESS

Napa County Environmental Health Dep
1195 Third Street
Napa, CA 94559

AGENCY USE/COMMENTS

SEAL

PERMIT RECEIVED BY CWMB

CWMB CONCURRENCE DATE

PERMIT REVIEW DUE DATE

5-15-90

PERMIT ISSUED DATE

5-15-86

AMERICAN CANYON SANITARY LANDFILL OPERATING PERMIT

A. FINDINGS

1. Summary of Proposed Operations

- a) This facility is an existing 122 acre Class III sanitary landfill, of which approximately a total of 90 acres will ultimately be used for disposal purposes. The facility is located at western terminus of Eucalyptus Drive in southern Napa County, on the east bank of the Napa River and approximately nine (9) miles south of the City of Napa. The site is part of a 300 acre parcel, 178 acres of which have been conveyed to the State of California as mitigation lands. Natural elevations at the site range from sea level to six (6) feet above sea level. Disposal operations have raised surface elevations at some points to as high as 55 feet above sea level. The facility is owned and operated by the American Canyon Landfill Company, Inc. A nearby borrow quarry operated concurrently with the disposal facility consists of an 100 acre parcel located on the west side of Oat Hill near Napa Junction. The imported soils consist of highly weathered to moderately hard sandstone and shale. The entire facility lies within the jurisdiction of Napa County.

The site has been utilized for the disposal of municipal waste since 1942, and the depth of refuse currently ranges up to approximately 50 feet. Open burning was used until 1957 when a modified open burning/sanitary landfill practice was implemented. All burning was ended in 1971 and the site has subsequently been operated as a sanitary landfill. Site life at current fill rates is expected to be approximately ten (10) years.

- b) This disposal site is operated using the area fill method of sanitary landfilling with final cover slopes no steeper than 4:1 and no flatter than five (5) percent. Refuse fill is placed in lifts averaging about 15 feet in thickness, with perimeter slopes of 3:1 (horizontal: vertical) or flatter. Refuse is spread and compacted in two-foot-thick layers on a sloped working face. Adequate compaction of all waste is achieved by several passes of the compaction equipment. Large or bulky wastes are separated out to prevent bridging, placed at the lower portion of the lift and thoroughly crushed. The advancing face is covered daily with a minimum six (6) inch thickness of soil cover. Fill areas which remain inactive for 180 days or more are covered with a one foot layer of

compacted intermediate soil cover. As filling in each area is completed to final grade elevation, the area receives a final cover of four (4) feet of compacted earth. This final cover consists of a two foot foundation layer, a one foot thick clay seal (maximum permeability of 1×10^{-6} cm/sec) and a one foot topsoil layer suitable for extensive revegetation of the surface area. Filling of the entire site is being accomplished in a series of modules. Fill operations are being conducted in the northern portion of the site to complete existing fill areas to fill grade. An initial excavation area for wet weather disposal operations is also being developed (Module A). Filling will progress sequentially through Modules II through VII. As areas are constructed to final grade, final cover will be applied and vegetation established. Temporary berms and ditches are constructed as needed to intercept and deflect surface runoff away from the active working face area. An extensive system for monitoring and collecting runoff, leachate and landfill gases has been put in place.

- c) The type of wastes to be received at this facility are Nonhazardous Solid Wastes as classified by the State Water Resources as follows:

Nonhazardous Solid Wastes consists of all putrescible and nonputrescible solid, semi-solid and liquid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and electrical appliances, manure, vegetable or animal solid and semi-solid wastes and other discarded solid and semi-solid waste; provided that such wastes do not contain wastes which must be managed as hazardous wastes, or wastes which contain soluble pollutants in concentrations which exceed applicable water quality objectives, or could cause degradation of waters of the state (i.e., designated waste). Examples include but are not limited to the following:

- (1) Municipal Solid Wastes including garbage, rubbish and tires.
- (2) Street Refuse including sweepings, dirt, leaves, litter, yard clippings, catch basin cleanings, paper, glass, wood and metals.
- (3) Dead Animals and portions thereof.
- (4) Construction and Demolition Materials such as paper, cardboard, wood, metal, glass, rubber products, roofing paper, wallboard, and wallpaper.
- (5) Municipal Wastewater and Water Treatment Solids including solids from screens and grit chambers and dewatered sludge.

- (6) Agricultural Wastes including plant residues, tree prunings, crop materials, roots, stumps, trimmings, animal manure, and empty triple-rinsed pesticide containers.

Hazardous wastes will not be accepted for disposal at this facility. Infectious waste and asbestos waste however, may be accepted with prior approval.

- d) This facility receives approximately 310 tons of wastes per day up to a maximum anticipated level of 415 tons per day by the year 1996. These waste volumes may be reduced by recycling efforts. The wastes received will be disposed of at a compacted density of 1,000 pounds per cubic yard, on a seven day per week basis. The total capacity of this facility is 6.9 million cubic yards of fill or 4.6 million cubic yards of wastes. The site has a life expectancy of over ten (10) years assuming the rate of growth projected for the service area occurs.
- e) Salvaging at this facility is not permitted. A dropoff center for glass, paper and metals has been established by Napa Garbage Service behind its office site at 400 Clay Street, Napa.
- f) This facility is open seven days per week, from 8:00 a.m. to 5:00 p.m.
- g) This facility is designed and operated according to the Report of Disposal Site Information, May 1985, Emcon Associates, and its supporting documents which are hereby incorporated into and made a part of this permit.
- h) No significant changes in the design or operation of this facility are anticipated in the next five years.

2. Agencies and Documents Which Condition the Operation and Use of the Facility

- a) The following agencies and documents condition the adoption, design, operation and use of this facility.
- (1) Napa County Board of Supervisors, Napa County General Plan, adopted September, 1975, revised June, 1983.
- (2) Napa County Planning Commission, Land Use Permit No. 32-67, approved January, 1967.
- (3) Napa County Board of Supervisors, Napa County Solid Waste Management Plan, revised December, 1983.
- (4) U. S. Army Corps of Engineers, San Francisco District, Final Environmental Impact Statement, issued June, 1982.

- (5) California Regional Water Quality Control Board, San Francisco Bay Region, Waste Discharge Requirements and Monitoring and Reporting Program, Order No. 81-62, issued September, 1979 and revised 1981.
- (6) U. S. Army Corps of Engineers, San Francisco District, Department of the Army Permit No. 9297-29, issued June, 1983.
- (7) Resources Agency of California, Agreement Between American Canyon Sanitary Landfill Company and the Resources Agency of California, signed October 7, 1980.
- (8) Bay Area Air Quality Management District, Permit No. 30893, May, 1985.
- (9) Napa County Planning Commission, Land Use Permit No. U-368485, May, 1985.
- (10) Napa County Environmental Health Department, Variance from the Napa County Noise Ordinance, August, 1985.

3. Conformance with State Minimum Standards

- a) This facility's design and operations are in compliance with the State Minimum Standards for Solid Waste Handling and Disposal as established by the California Waste Management Board.

4. Conformance with the American Canyon Fire District Standards

- a) The American Canyon County Fire District has determined that this facility is in compliance with the local fire standards and with Public Resources Code Sections 4373 and 4374.

5. Conformance with Napa County Solid Waste Management Plan

- a) This permit is consistent with the latest version of the Napa County Solid Waste Management Plan, revised December, 1983.

6. Conformance with Napa County General Plan

- a) The Napa County Conservation, Development and Planning Department has made a determination that this facility is consistent with, and designated in, the Napa County General Plan, as amended June 7, 1983.

7. Conformance with Land Use Planning

- a) This facility is in conformance with the zoning designated for the parcel, i. e., "AW" Agricultural Watershed District. The

use of a site as a sanitary landfill is permitted in AW districts if a use permit has been granted for that use. Such a use permit has been granted to American Canyon Sanitary Landfill Company. The parcels within 1000 feet of the facility are all zoned "AW:FP-1" Agricultural Watershed: Primary Flood Plan Combination District. The parcels are used primarily for open space, grazing and agriculture. The surrounding land use is compatible with the operation of the landfill. The closest residences are over 3000 feet away from the landfill operation.

8. Environmental Impact Statement

- a) A Final Environmental Impact Statement (FEIS) was prepared and processed on this facility in June, 1982 by the San Francisco District, U. S. Army Corps of Engineers, pursuant to the National Environmental Policy Act (NEPA) of 1969. The Draft Environmental Impact Statement (DEIS) for this project was issued in March, 1976.

9. Conformance with Standards Adopted by the California Waste Management Board

- a) This permit is consistent with the provisions of AB 3302 and AB 3433 and is consistent with the standards for handling and disposal of solid wastes adopted by the California Waste Management Board.

B. CONDITIONS

1. Requirements

- a) This facility shall comply with all of the State Minimum Standards for Solid Waste Handling and Disposal established by the California Waste Management Board and administered locally by the Napa County Environmental Health Department.
- b) This facility must comply with all applicable federal, state and local enactments, laws and regulations.
- c) Additional information concerning the design and operation of this facility must be furnished upon request and within the time frame indicated by the Napa County Environmental Health Department.
- d) At the discretion of the Napa County Environmental Health Department, landfill gas probes shall be installed for detection of landfill gas migration. A landfill gas recovery system has already been installed at the landfill.

2. Prohibitions

a) The following actions are prohibited at this facility:

- (1) Disposal of hazardous wastes.
- (2) Disposal of Designated Wastes without prior approval by the Napa County Environmental Health Department and the San Francisco Regional Water Quality Control Board on a case-by-case basis.
- (3) Scavenging.
- (4) Open burning.
- (5) Disposal of liquid wastes.
- (6) Disposal of septic tank pumpings.
- (7) Disposal of dead animals.
- (8) Disposal of hot or burning wastes.

3. Specifications

a) The following mitigation measures shall be undertaken in order to meet the requirements of the formal agreement entered into with the Resources Agency of California:

- (1) Preservation of approximately 178 acres of wetlands by deeding such land to the California Department of Fish and Game.
- (2) Installation of a tidal gate in the Phase 2 levee such that the portion of Phase 2 deeded to the Department of Fish and Game will flood and drain twice daily to a minimum depth of 1.5 feet above 70 percent of the existing vegetation. The Department of Fish and Game shall operate and maintain the tidal gate.
- (3) Installation of a tidal gate in the Phase 3 levee; the location of the tidal gate shall be mutually selected by the applicant and the California Department of Fish and Game; the tidal gate shall be operated and maintained by the California Department of Fish and Game.
- (4) Install as much fencing around Phase 3 and the remainder of Phase 2 as is required to prevent cows and horses from entering the area.

- (5) The land area surrounding the embayment to the west of the project site will be graded, covered, and compacted by the applicant in a manner deemed aesthetically sound.
 - (6) Provision of all necessary leachate controls for Phase 1 and the 53 acres of Phase 2.
 - (7) Construction (with the review and approval of the Department of Fish and Game) of a slough and connection to lateral ditches within the existing levees surrounding the remainder of Phase 2.
 - (8) Provision of a nonexclusive route for public access to the river in the areas of the disposal operation and to the mitigated lands referred to in item one (1) above.
 - (9) Upon closure of the landfill operation, the project site will be utilized for open space purposes only.
- b) No significant change in design or operation from that described in Item #1 of the FINDINGS section is allowed, except for those changes which are required under the CONDITIONS portion of this permit. Any significant change which may be proposed for the facility shall require submission of a revised Report of Disposal Site Information and a new application for a solid waste facility permit to the Napa County Department of Environmental Health.
 - c) This facility has a permitted daily capacity of 420 tons per day and shall not receive significantly more than 420 tons per day of solid waste unless it first obtains a modification of this permit. The remaining capacity of this landfill is approximately 1,400,000 tons.

4. Provisions

- a) Land Use Permit No. 32-67 conditions.
- b) This permit is subject to review by the Napa County Environmental Health Department, and may be suspended, revoked, or modified for sufficient cause after a hearing.

5. Self-Monitoring:

- a) The following items shall be monitored by the operator of the facility or a designated agent and records shall be kept and made available to the Napa County Environmental Health Department:
 - (1) Quantity and types of waste received at the site per day and per week.

- (2) The California Regional Water Quality Control Board's, San Francisco Bay Region, requirements shall be complied with.
- (3) At the discretion of the Napa County Environmental Health Department, landfill gas probes shall be installed for the detection of landfill gas migration.